

Datasheet

**NFC Reader**  
FPC / Internal Antenna



55 x 17 x 0.45 mm

**NFC Antenna**

**Features:**

- Thin, semi-flexible structure
- Easily assembles to device covers or mechanics
- Well-known antenna concept, reliable technology

**Applications:**

- Mobile devices
- Home automation devices
- Sharing / pairing



**Electrical Specifications**

**Antenna Characteristics (Contains Ferrite)**

Frequency (MHz)*	13.56
Inductance (μH)**	2.27
Resistance (Ω)**	2.05
Self Resonance Frequency (MHz)**	30.37
Q-Factor**	40.4
Ferrite Permeability (μ')	150

\* With matching network.

\*\* Bare coil without any matching network.

**Mechanical Specifications**

**Mechanical**

Dimension (mm)	55.0 × 17.0 × 0.45
Connector Type	SWB , 1224H-02-LP
Cable Type	UL3302 #28 AWG , ø0.6
Cable length (mm)	146
Weight (g)	1.6

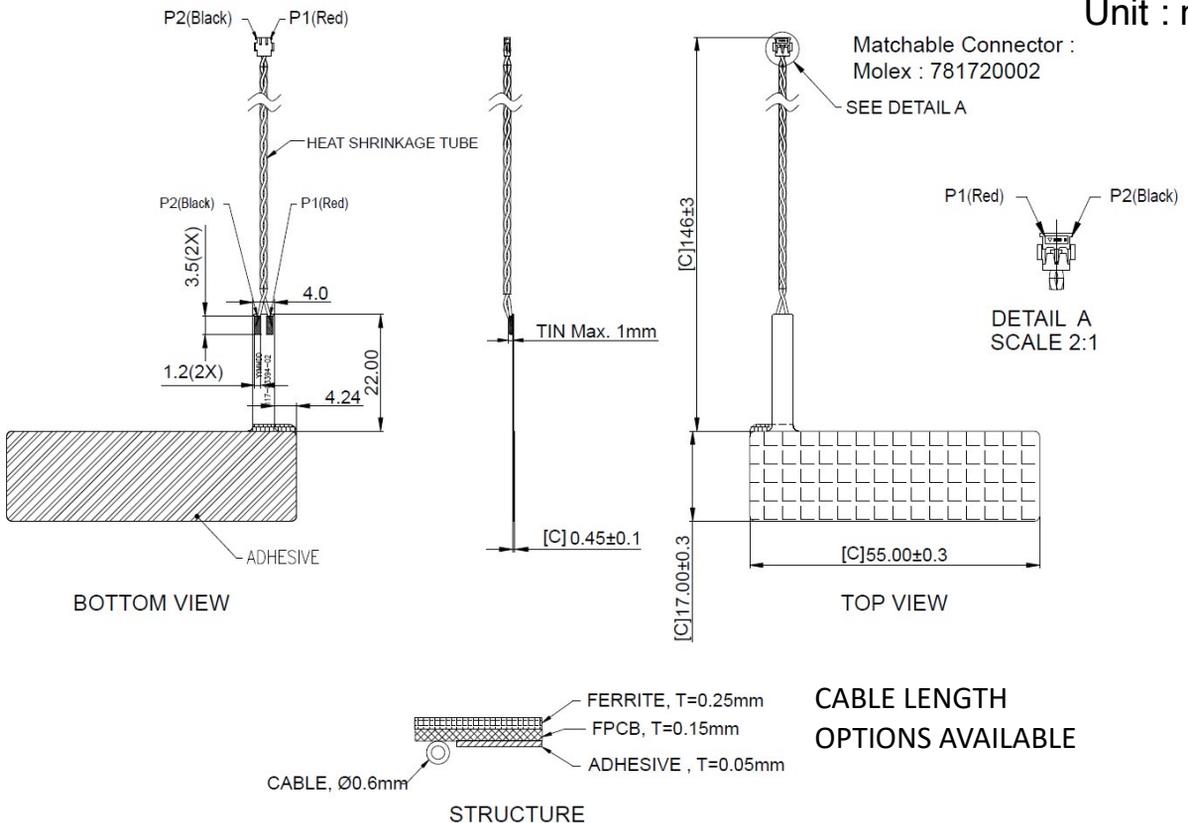
**Environmental**

Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

**Mechanical Drawing**

Unit : mm



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-01-16	ST0824-20-401-U-RA00	ATC

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